

2 Williams Street
Chelsea, MA 02150
(617) 889 - 6515



INSPECTORATE

QUALITY CERTIFICATE

Vessel	"Penn-460"	Port	Providence, RI	Report	124203
Customer	Sprague Energy	Date	December 27, 2003	Reference	
Operation	Analysis	Terminal	Sprague Providence	Sample #	369463

Name of material being tested
Description of sample source
Samples Drawn by (company)
Samples Tested by (company)

6 Fuel Oil

Shore Tank#6 After Discharge
Inspectorate America Corp.
Inspectorate America Corp.

1/06

Tests being Performed	Test method	Sample Results
Gravity API @ 60 F	D - 287	12.2
Flash Point, PMCC, F	D - 93	219
Viscosity cSt @ 122 F	D - 445	233.6
Viscosity SFS @ 122 F	D - 1261	110.5
Pour Point, F	D - 97	37
Sulfur, wt %	D - 4294	0.99
Water & Sediment, vol %	D - 1796	0.10
Gross Heat of Combustion, BTU / lb	D - 240	18,503
Gross Heat of Combustion, BTU / gal	D - 240	151,736
Nitrogen, wt %	D - 5762	0.38
Ash wt %	D - 482	0.2
Ashphaltenes, wt %	IP - 143	5.16
Conradson Carbon Residue, wt %	D - 189	10.7
Vanadium, ppm	D - 5863	99
Sodium, ppm	D - 5863	22
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** Annotates Analysis Contracted Out